# Daniel Hettinger

+12173777205 | danielhettinger916@gmail.com | [LinkedIn](#) | [GitHub](#)

## SKILLS

**Programming Languages**: Python, JavaScript, TypeScript, Golang, HTML, CSS, SQL, Bash
**Frameworks**: Node.js, Express.js, React.js, React Router, Material UI
**Tools**: Git, Linux, Docker, Postman, Selenium, AWS (Lambda, S3, DynamoDB, RDS), CI/CD
**Human Languages**: English (C2), German (B1)

## EXPERIENCE

**State Farm** — Bloomington, IL
*Software Engineer* — *May. 2022 – Present*

- Leading the development of a system for automating a business process which, after completion, is estimated to save $211,575 per year. Built using several AWS services, a backend written in Python / Node.js and a frontend using React.js.
- Writing Terraform code to manage many different AWS services, including Lambdas, API Gateways, S3 Buckets, RDS databases, DynamoDB tables, and IAM permissions.
- Wrote a business rules engine in JavaScript to allow the business logic of an applications to be externalized to a database, separate from the application code. This allows updates to business logic without redeploying the application, saving 12 developer hours per week and providing stakeholders with a way to view business rules without having to understand the code.
- Reduced the time it takes to deploy backend applications to both test and production from thirty minutes to two minutes by optimizing the Python and Bash scripts used by the CI/CD pipelines.

**University of Illinois at Urbana-Champaign** — Champaign, IL
*CS225 (Data structures and Algorithms) Teaching Assistant* — *Aug. 2020 – May 2022*

- Held office hours multiple times a week, helping students solidify their understanding of the topics covered in class.
- Led a discussion section of thirty students each week teaching topics not discussed in lecture.
- Developed new assignments and course material.

## PROJECTS

**chicago-apartment-data (in-progress) [Source code]**

- Developing a web application that allows users to see different trends in the Chicago rental market.
- Implemented frontend using React.js, Material UI, and React Router
- Wrote Python scripts that run daily to scrape data for individual rental properties from Domu.
- Implemented DynamoDB infrastructure and wrote queries to store and retrieve historical rental unit data.

**Grant Management Tool for State Farm Hackathon**

- Developed an internal web application for the grant department, replacing the excel sheet previously used while providing more features and increased reliability.
- Built frontend using React.js and Material UI with the capability to enter new grants, edit existing grants, search the collection of grants, and generate data visualizations.
- Provisioned an RDS instance and designed the PostgreSQL table to store grant records.
- Selected as one of the five winners among 300 teams.

**receipt-processor [Source code]**

- Developed an API using Golang to process and store receipts for a rewards app.
- Tested API exhaustively using both unit tests and Postman integration tests.

## EDUCATION

**University of Illinois at Urbana-Champaign** — Champaign, IL
*Bachelor of Science in Computer Science*

**Relevant Courses**: Data Structures, Algorithms, Software Design Lab, Computer Architecture, System Programming, The Art of Web Programming, Database Systems